Metolux®

For use with GRP Board

BRICK ADHESIVE

BBA APPROVAL INSPECTION TESTING CERTIFICATION
CERTIFICATE 12/4893

METOFIX 3-1 GRP

2 Part Low Viscosity Solvent Free Epoxy Building Adhesive

Low Viscosity GRP

Product Description

This 3-1 ratio solvent free, general purpose building adhesive is designed for 'face-up' applications. It is designed primarily for the decorative brick industry for use on lintels, arches chimneys and brick slips. The product has a unique packaging system which houses the resin and hardener in one container, the hardener housed in the dish lid. This low viscosity formula displays the superior penetration which is ideal for applications with GDP board, Panel Systems and Chimneys.

Benefits

The benefits of Metofix 3-1 GRP include:

Single unit packaging (resin & hardener), easy to mix and easy to apply, higher penetration, non shrink epoxy, excellent chemical resistance, excellent structural characteristics, adheres to almost any surface, excellent sealant qualities, cures down to 5ºC, re-usable unit, strong container, easy to pigment & ready to use, low viscosity.

Uses

As a structural adhesive for:

Adhesion of brick slips to MDF (medium density fibreboards) or GRP (glass reinforced plastic) boards, Chimneys and Panel systems, bonding of concrete materials. Brick & Mortar or Stone, Ceramic, Tile or Glass elements, All metals incl, Iron, Aluminium, Copper etc. Marble, wooden structures. Structual bonding of post-tensioned precast concrete bridge segments. Sealing joints between concrete segments. For use in segment by segment erection. Bedding In (eg floor tiles), gap & crack filling in voids, grouting, ideal for "face-up" applications.

Application

Mixing Ratio

3:1 by volume of Resin + Hardener compounds

Mixing Method

Remove the hardener 'dish lid' to reveal the resin component beneath. Mix the two components equally and thoroughlly to the correct ratio until an even and consistent mix is achieved. Mixing is best carried out on a smooth board using a wide blade scraper. If necessary the product can be mixed using a slow speed mechanical mixer.

Application Method

Apply by trowel, spatula or scraper with a minimum thickness of 1mm. Ensure adhesion takes place while the product is still mobile and tacky. Components should be supported during curing to prevent slippage.

Tool Cleaning

Use a solvent based thinner on tools on uncured material only.

Gel / Cure Times

	Working Times @ Different Ambient ºC for 100g mass of mixed product								
Temp ºC	**0**	**5**	**10**	**15**	**20**	**25**	**30**	**35**	**40**
Gel Time (mins)	450	360	255	180	120	105	75	40	38
Cure Time (mins)	1620	1440	900	720	420	240	225	110	90

Full cure 24 hours

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System Information

Coverage	1.95m² @ 1mm Thickness per 5kg Visit www.metolux.co.uk for usage calculator.
Preparation	The applications surfaces must be sound, clean and dry and free from oil, grease, rust or surface water wherever possible. Smooth surfaces should be abraded beforehand. Always check substrate quality e.g. Concrete surfaces must be in excess of 28 days old.

Application Conditions

Substrate	Minimum substrate temperature +5C - +30C Max.
Ambient	Minimum ambient temperature +5C - +30C Max.
Material	Minimum material temperature +5C - +30C Max.
Damp Surface	Ensure that the product is worked well into all areas when applying to damp.

Product Data

Nature	Smooth Paste.
Colour	Activator : Dark Grey Base : Light Grey Combined : Medium Grey

Packaging	Polypropylene Container 5kg or 15kg (3.8 Litres or 11.5 Litres mixed product)
Storage & Shelf Life	24 Months from Date of Manufacture. Storage between +5ºC and +25ºC Avoid contact with direct sunlight. Storage must be in dry conditions. Packaging must remian airtight at all times.

Technical Data

Chemistry	Epoxy Resin Formula
Density	1.3 kg / litre at 25ºC mixed.
Layer Thickness	Minimum thickness 1mm application. Layers above 30mm build up in stages, observing the relevant gel time between stages.

Mechanical & Physical Properties

Compressive Strength	24 Hours @ +20ºC - 76.03 N/mm^2 - Tested to EN ISO 604 / ASTM 695
Flexural Strength	24 Hours @ +20ºC - 32.68 M/pa - Tested to EN ISO 178 / ASTM 795
Tensile Strength	24 Hours @ +20ºC - 24.43 N/mm^2 - Tested to EN ISO 527 / ASTM 638
Bond Strength	24 Hours @ +20ºC - 11.0 M/pa - X-HEAD
E-Modulus	Compressive - 18212 N/mm^2 (24 hrs @ 20ºC) EN ISO 527 / ASTM 638

Testing & Approvals

Approval Standards

ASTM - American Standard of Testing & Materials.

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BBA - Agrement Certificate : 12/4893 - For bonding cut bricks and pavers, fixing of brick slips to cast concrete structural units or GRP panels under factrory conditions. Also on-site for the replacement of damaged brick slips.

Important

IMPORTANT: The information and data given is based on our own experience, research and testing and is believed to be reliable and accurate. However, as Chemfix Products cannot know the varied uses to which its products may be applied, or the methods of application used, no warranty as to the fitness or suitability of its products is given or implied. It is the users responsibility to determine suitability of use. For further information please contact our Technical Department.

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